

IN THE CLAIMS:

The claims as currently presented and under consideration, are presented below for the Examiner's convenience and to comply with 37 CFR §1.121. This listing of claims will replace all prior versions, and listings, of claims in the application:

1-14. (Cancelled)

15. (Currently Amended) A method for producing a protein of interest encoded by a gene under the control of an inducible promoter comprising the steps of:

- a) Mixing a concentrated glucose solution comprising between about 5% to about 75% glucose with a cellulase preparation selected from the group consisting of a whole cellulase composition or beta-glucosidase enriched cellulase composition to give a first mixture;
- b) Incubating the first mixture at a temperature and for a sufficient time to produce an inducing feed composition comprising sophorose and/or gentiobiose, and glucose; and
- c) Culturing a ~~host~~ cell with said inducing feed composition in an amount effective to induce the production of said protein of interest;
wherein said inducible promoter is a sophorose-inducible promoter or a gentiobiose-inducible promoter.

~~wherein the inducing feed composition comprises a sugar mixture containing glucose and appreciable quantities of an inducer of cellulase gene expression.~~

16. (Original) The method of claim 15 wherein the protein produced is an endogenous cellulase.

17. (Currently Amended) The method of claim 15 wherein the ~~host~~ cell has been transformed with an expression construct comprising a promoter operably linked to a gene encoding a protein of interest.

18. (Original) The method of claim 17 wherein the promoter is an inducible promoter.

19. (Original) The method of claim 17 wherein the promoter is a cellulase gene promoter.
20. (Original) The method of claim 19 wherein the promoter is the *cbh 1* promoter from *Trichoderma reesei*.
21. (Original) The method of claim 18 wherein the inducible promoter is a sophorose-inducible promoter.
22. (Original) The method of claim 18 wherein the inducible promoter is a gentiobiose-inducible promoter.
23. (Original) The method of claim 17 wherein the protein of interest is a heterologous protein.
24. (Original) The method of claim 23 wherein the heterologous protein is selected from the group consisting of hormones, enzymes, growth factors, cytokines, and antibodies.
25. (Currently Amended) The method of claim 15 wherein the host cell is a filamentous fungus.
26. (Original) The method of claim 25 wherein the fungus is selected from the group consisting of *Trichoderma*, *Humicola*, *Fusarium*, *Aspergillus*, *Neurospora*, *Penicillium*, *Cephalosporium*, *Achlya*, *Podospora*, *Endothia*, *Mucor*, *Cochliobolus* and *Pyricularia*.
27. (Original) The method of claim 26 wherein the fungus is *Trichoderma spp.*
28. (Original) The method of claim 27 wherein the fungus is *Trichoderma reesei*.
29. (Original) The method of claim 26 wherein the fungus is *Penicillium spp.*

30. (Original) The method of claim 29 wherein the fungus is *Penicillium funiculosum*.

31. (Currently Amended) The method of claim 15 wherein the host cell is a bacteria.

32. (Original) The method of claim 31 wherein the bacteria is selected from the group consisting of *Streptomyces*, *Thermomonospora*, *Bacillus*, and *Cellulomonas*.

33. (Cancelled)

34. (Cancelled)

35. (Cancelled)

36. (Previously Presented) The method of claim 15 wherein the cellulase preparation is provided at a concentration from about 0.5g/L to about 50g/L total protein.

37. (Previously Presented) The method of claim 15 wherein the glucose is incubated with the cellulase composition at about 50°C to about 70°C.

38. (Previously Presented) The method of claim 37 where in the glucose is incubated with the cellulase composition for between 8 hours and 7 days.

39. (Cancelled)

40. (Cancelled)

41. (New) A method for producing a protein from a cell culture comprising the steps of:

a) incubating a solution comprising glucose and a cellulase preparation selected from the group consisting of a whole cellulase composition or beta-glucosidase enriched cellulase composition for about 50°C to about 70°C for about 8 hours to about 500 hours; and

b) contacting said cell with said solution; wherein said protein is produced.

42. (New) The method of claim 41 wherein the protein produced is an endogenous protein.

43. (New) The method of claim 41 wherein the protein produced is an endogenous cellulase.

44. (New) The method of claim 41 wherein the protein produced is a heterologous protein.
45. (New) The method of claim 44 wherein the heterologous protein is selected from the group consisting of hormones, enzymes, growth factors, cytokines, and antibodies.
46. (New) The method of claim 45 wherein said enzyme is a cellulase.
47. (New) The method of claim 41 wherein said cell is a filamentous fungus.
48. (New) The method of claim 47 wherein the fungus is selected from the group consisting of *Trichoderma*, *Humicola*, *Fusarium*, *Aspergillus*, *Neurospora*, *Penicillium*, *Cephalosporium*, *Achlya*, *Podospora*, *Endothia*, *Mucor*, *Cochliobolus* and *Pyricularia*.
49. (New) The method of claim 41 wherein said cell is *Trichoderma* spp.
50. (New) The method of claim 41 wherein said cell is *Trichoderma reesei*.
51. (New) The method of claim 41 wherein said cell is *Penicillium* spp.
52. (New) The method of claim 41 wherein said cell is *Penicillium funiculosum*.
53. (New) The method of claim 41 wherein the cell is a bacteria.
54. (New) The method of claim 53 wherein the bacteria is selected from the group consisting of *Streptomyces*, *Thermomonospora*, *Bacillus*, and *Cellulomonas*.